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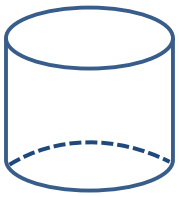
Nets and Drawings for Visualizing Geometry Guide Notes

A net is a two-dimensional diagram that you can fold to form a three-dimensional figure.

A net shows all of the surfaces of a figure in one view.

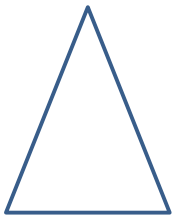
Sample Problem 1: Identify each figure as two-dimensional or three-dimensional.

a.



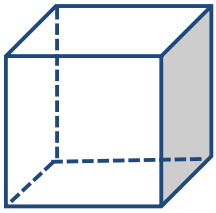
b.

c.

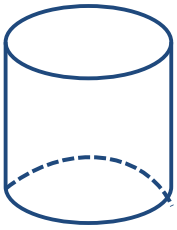


Sample Problem 2: Draw a net for each figure and then list what 2D shapes you would need to make each one.

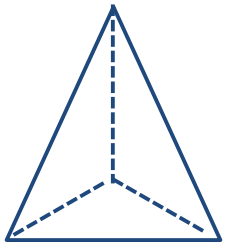
a.



b.



c.



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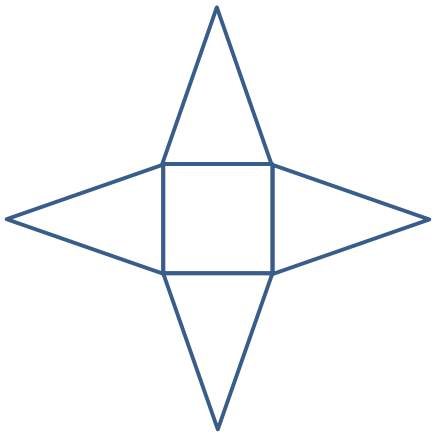
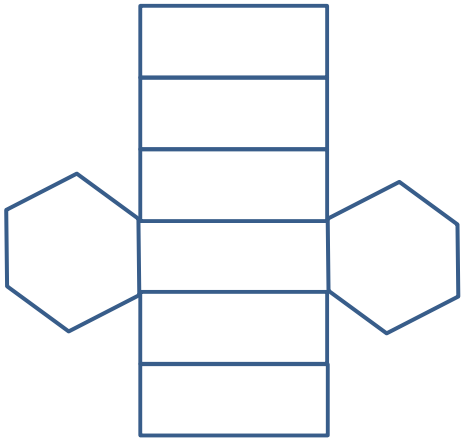
Nets and Drawings for Visualizing Geometry Guide Notes

Sample Problem 3: Name a three-dimensional figure that can be formed from each net.

a.



b.



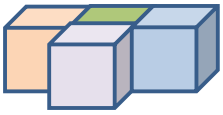
An isometric drawing

An isometric drawing shows a corner view of a three-dimensional figure.

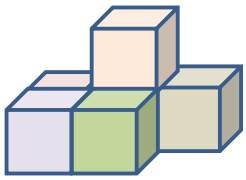
You can draw an isometric drawing on isometric dot paper.

Sample Problem 4: **Make an isometric drawing of each cube structure on isometric dot paper.**

a.



b.



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Nets and Drawings for Visualizing Geometry Guide Notes

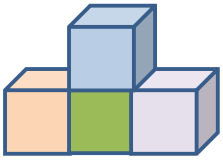
An orthographic drawing

An orthographic drawing is another way to represent a three-dimensional figure.

It shows a top view, front view, and right-side view.

Sample Problem 5: Make an orthographic drawing for each structure.

a.

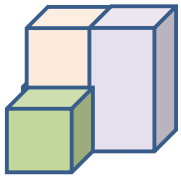


Top view

Front view

Right-side view

b.



Top view

Front view

Right-side view